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1 On efficient storage space distribution among materialized views and indices in data warehousing environments
Ladjel Bellatreche, Kamalakar Karlapalem, Michel Schneider
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Full text available: pdf(217.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: data warehouses, index selection problem, physical data warehouse design, query processing, storage constraint, view selection problem

2 Twin grid files: space optimizing access schemes
Andreas Hutflesz, Hans-Werner Six, Peter Widmayer
June 1988 **Proceedings of the 1988 ACM SIGMOD international conference on Management of data**
Full text available: pdf(952.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Storage access schemes for points, supporting spatial searching, usually suffer from an undesirably low storage space utilization. We show how a given set of points can be distributed among two grid files in such a way that storage space utilization is optimal. The optimal twin grid file can be built practically as fast as a standard grid file, i.e., the storage space optimality is obtained at almost no extra cost. We compare the performances of the standard grid file, the optimal static tw ...

3 The Logical Record Access Approach to Database Design
Toby J. Teorey, James P. Fry
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
Full text available: pdf(2.81 MB) Additional Information: full citation, references, citings, index terms

4 Managing the storage and battery resources in an image capture device (digital camera) using dynamic transcoding
Surendar Chandra, Carla Schlatter Ellis, Amin Vahdat
August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia**
Full text available: pdf(970.10 KB) Additional Information: full citation, abstract, references, citings, index terms

Advances in hardware imaging technology and user demand for convenient mobile electronic image capture are fueling the development of inexpensive image capture devices that can acquire images rivaling the image quality of photographic film. Improvements in the hardware imaging technology have to be matched with intelligent image storage mechanisms that are aware of local storage and battery constraints. In this paper, we explore using a dynamic, informed image transcoding technique to manag ...

5 Multi-resolution algorithms for building spatial histograms

Qing Liu, Yidong Yuan, Xuemin Lin

January 2003 **Proceedings of the Fourteenth Australasian database conference on Database technologies 2003 - Volume 17**

Full text available: pdf(213.09 KB) Additional Information: full citation, abstract, references, index terms

Selectivity estimation of queries not only provides useful information to the query processing optimization but also may give users a preview of processing results. In this paper, we investigate the problem of selectivity estimation in the context of a spatial dataset. Specifically, we focus on the calculation of four relations, *contains, contained, overlap* and *disjoint,* between data objects and a query rectangle using *Euler*-histograms. We first provide a multi-resolution al ...

Keywords: approximation query processing, histograms, selectivity estimation, spatial databases

6 Distributing a search tree among a growing number of processors

Brigitte Kröll, Peter Widmayer

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

Databases are growing steadily, and distributed computer systems are more and more easily available. This provides an opportunity to satisfy the increasingly tighter efficiency requirements by means of distributed data structures. The design and analysis of these structures under efficiency aspects, however, has not yet been studied sufficiently. To our knowledge, a single scalable, distributed data structure has been proposed so far. It is a distributed variant of linear hashing with uncon ...

7 Design of Scalable Continuous Media Servers

Cheng-Fu Chou, Leana Golubchik, John C. S. Lui, I-Hsin Chung

July 2002 **Multimedia Tools and Applications**, Volume 17 Issue 2-3

Full text available: Publisher Site Additional Information: full citation, abstract

Multimedia applications place high demands for quality-of-service (QoS), performance, and reliability on systems. These stringent requirements make design of cost-effective and scalable systems difficult. Therefore efficient *adaptive* and *dynamic* resource management techniques in conjunction with data placement techniques can be of great help in improving performance, scalability, and reliability of such systems. This is the focus of our paper.

Keywords: continuous media systems, data placement, dynamic resource management, storage servers

8 Resource-Based Striping: An Efficient Striping Strategy for Video Servers Using Heterogeneous Disk-Subsystems

Jen-Wen Ding, Yueh-Min Huang

January 2003 **Multimedia Tools and Applications**, Volume 19 Issue 1

Full text available: Publisher Site Additional Information: full citation, abstract

In building a large-scale video server, it is highly desirable to use heterogeneous disk-subsystems for the following reasons. First, existing disks may fail, especially in an environment with a large number of disks, enforcing the use of new disks. Second, for a scalable server, to cope with the increasing demand of customers, new disks may be needed to increase the server's storage capacity and throughput. With rapid advances in the performance of disks, the newly added disks generally ...

Keywords: Video-On-Demand, data striping, heterogeneous disk-subsystems, multimedia storage, video server

9 Complex object retrieval via structural join index hierarchy mechanisms: evaluation and selection approaches

Chi-wai Fung, Kamalakar Karlapalem, Qing Li

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available: pdf(130.33 KB) Additional Information: full citation, references, index terms

Keywords: complex object retrieval, hill-climbing heuristic algorithm, object oriented databases, structural join index hierarchy

10 Optimal storage allocation for serial files

Haim Mendelson, Joseph S. Pliskin, Uri Yechiali

February 1979 **Communications of the ACM**, Volume 22 Issue 2

Full text available: pdf(720.40 KB) Additional Information: full citation, abstract, references, citings

A computer system uses several serial files. The files reside on a direct-access storage device in which storage space is limited. Records are added to the files either by jobs in batch processing mode, or by on-line transactions. Each transaction (or job) generates a demand vector which designates the space required in each file for record addition. Whenever one file runs out of space, the system must be reorganized. This paper considers several criteria for best allocating storage space t ...

Keywords: partitioned dataset, reorganization, serial files, storage allocation

11 Tetrahedral mesh compression with the cut-border machine

Stefan Gumhold, Stefan Guthe, Wolfgang Straßer

October 1999 **Proceedings of the conference on Visualization '99: celebrating ten years**

Full text available: pdf(2.55 MB) Additional Information: full citation, abstract, references, citings, index terms

In recent years, substantial progress has been achieved in the area of volume visualization on irregular grids, which is mainly based on tetrahedral meshes. Even moderately fine tetrahedral meshes consume several mega-bytes of storage. For archivation and transmission compression algorithms are essential. In scientific applications lossless compression schemes are of primary interest. This paper introduces a new lossless compression scheme for the connectivity of tetrahedral meshes. Our tec ...

Keywords: compression algorithms, scientific visualization, solid modeling, volume rendering

12 Multi-item inventory staggering problems: heuristics and bounds
Chung-Piaw Teo, Jihong Ou, Kok-Choon Tan
January 1998 **Proceedings of the ninth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(969.63 KB) Additional Information: full citation, references, index terms

13 Video staging: a proxy-server-based approach to end-to-end video delivery over wide-area networks
Zhi-Li Zhang, Yuewei Wang, David H. C. Du, Dongli Shu
August 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 4
Full text available: pdf(432.53 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: MPEG, end-to-end video delivery, heterogeneous networking environment, proxy server, video smoothing, video staging, video streaming

14 Enhanced privacy and authentication for the global system for mobile communications
Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang
July 1999 **Wireless Networks**, Volume 5 Issue 4
Full text available: pdf(204.97 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...

15 Independence is good: dependency-based histogram synopses for high-dimensional data
Amol Deshpande, Minos Garofalakis, Rajeev Rastogi
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2
Full text available: pdf(237.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Approximating the joint data distribution of a multi-dimensional data set through a compact and accurate histogram synopsis is a fundamental problem arising in numerous practical scenarios, including query optimization and approximate query answering. Existing solutions either rely on simplistic independence assumptions or try to directly approximate the full joint data distribution over the complete set of attributes. Unfortunately, both approaches are doomed to fail for high-dimensional dat ...

16 Comparing random data allocation and data striping in multimedia servers
Jose Renato Santos, Richard R. Muntz, Berthier Ribeiro-Neto
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 28 Issue 1
Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

We compare performance of a multimedia storage server based on a random data allocation layout and block replication with traditional data striping techniques. Data striping techniques in multimedia servers are often designed for restricted workloads, e.g. sequential access patterns with CBR (constant bit rate) requirements. On the other hand, a system

based on random data allocation can support virtually any type of multimedia application, including VBR (variable bit rate) video or audio, ...

17 A formal perspective on the view selection problem

Rada Chirkova, Alon Y. Halevy, Dan Suciu

November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 3

Full text available: pdf(329.63 KB) Additional Information: full citation, abstract, index terms

The view selection problem is to choose a set of views to materialize over a database schema, such that the cost of evaluating a set of workload queries is minimized and such that the views fit into a prespecified storage constraint. The two main applications of the view selection problem are materializing views in a database to speed up query processing, and selecting views to materialize in a data warehouse to answer decision support queries. In addition, view selection is a core problem for i ...

Keywords: Materialized views, View selection

18 Flexible usage of parity storage space in disk arrays

Eric J. Schwabe, Ian M. Sutherland

June 1996 **Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(1.07 MB) Additional Information: full citation, references, index terms

19 Linear programming queries revisited

Edgar A. Ramos

May 2000 **Proceedings of the sixteenth annual symposium on Computational geometry**

Full text available: pdf(542.09 KB) Additional Information: full citation, references, index terms

20 Indexing very high-dimensional sparse and quasi-sparse vectors for similarity searches

Changzhou Wang, X. Sean Wang

April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available: pdf(359.20 KB) Additional Information: full citation, abstract, index terms

Similarity queries on complex objects are usually translated into searches among their feature vectors. This paper studies indexing techniques for very high-dimensional (e.g., in hundreds) vectors that are sparse or quasi-sparse, i.e., vectors *each* having only a small number (e.g., ten) of non-zero or significant values. Based on the R-tree, the paper introduces the xS-tree that uses lossy compression of bounding regions to guarantee a reasonable minimum fan-out within the allocated stora ...

Keywords: High-dimensional indexing structure, Lossy compression, Quasi-sparse vector, Similarity search, Sparse vector

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1 RFC2848: The PINT Service Protocol: Extensions to SIP and SDP for IP Access to Telephone Call Services
S. Petrack, L. Conroy
June 2000 rfc, RFC Editor
Additional Information: full citation

This document contains the specification of the PINT Service Protocol 1.0, which defines a protocol for invoking certain telephone services from an IP network. These services include placing basic calls, sending and receiving faxes, and receiving content over the telephone. The protocol is specified as a set of enhancements and additions to the SIP 2.0 and SDP protocols.

2 CARAT: a testbed for the performance evaluation of distributed database systems
Walt Kohler, Bao-Chyuan Jenq
November 1999 **Proceedings of 1986 fall joint computer conference on Fall joint computer conference**
Full text available: pdf(1.21 MB) Additional Information: full citation, references, index terms

3 Hitchhiker's guide to Visual Basic and SQL Server (4th ed.)
William R. Vaughn
May 1996 Book, Microsoft Press
Additional Information: full citation, index terms, review

4 Monitoring data streams: Adaptive filters for continuous queries over distributed data streams
Chris Olston, Jing Jiang, Jennifer Widom
June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**
Full text available: pdf(244.11 KB) Additional Information: full citation, abstract, references

We consider an environment where distributed data sources continuously stream updates to a centralized processor that monitors continuous queries over the distributed data. Significant communication overhead is incurred in the presence of rapid update streams, and we propose a new technique for reducing the overhead. Users register continuous queries with precision requirements at the central stream processor, which installs filters at remote data sources. The filters adapt to changing condition ...

5 Services provided to users of SNA networks
James P. Gray
November 1979 **Proceedings of the sixth symposium on Data communications**

Full text available: pdf(696.48 KB) Additional Information: full citation, abstract, references, index terms

The services that can be provided by an SNA network are discussed from a user's (e.g., terminal operator's, application programmer's, network system programmer's) point of view. No details of the network's internal behavior are given, but a short review of SNA introduces the paper.

6 Web mining, tools, and performance evaluation: Design and performance evaluation of a web-based multi-tier federated system for a catalogue of life
Xuebiao Xu, Andrew C. Jones, W. Alex Gray, Nick J. Fiddian, Richard J. White, Frank A. Bisby
November 2002 **Proceedings of the fourth international workshop on Web information and data management**

Full text available: pdf(74.06 KB) Additional Information: full citation, abstract, references, index terms

In the SPICE (SPecies 2000 Interoperability Co-ordination Environment) project, we are designing and evaluating a web-based multi-tier federated system, intended as a scalable infrastructure for a globally distributed federated database of biological knowledge. It is designed to harness specialist expertise on classification of individual groups of organisms to form a 'catalogue of life' of high taxonomic quality, and to solve problems of heterogeneity, scale and component database unreliability ...

Keywords: biodiversity informatics, caching, federated information system, multi-tier

7 Visual Basic 5 Unleashed: Professional Reference Edition
Sams Publishing, Michael Amundsen, Ashton Hobbs
March 1998 Book, Sams

Additional Information: full citation, abstract

From the Publisher:

POWERFUL RESOURCE: The Unleashed series takes you beyond the average discussions of the technology, giving you practical advice and in-depth coverage. Use the comprehensive indexes, legends, and tables of content to find everything you need. With these extensive guides, you'll obtain the skills, understanding, and breadth of knowledge to unleash the full potential of VB5. POWERFUL SOFTWARE: { Source code and examples from the book { Microsoft Visual Basic Control Crea ...

8 Sams Teach Yourself Database Programming with Visual Basic 6 in 21 Days
Curtis Smith, M. Amundsen, Michael C. Amundsen
September 1998 Book, Sams

Additional Information: full citation, abstract

From the Publisher:

Discover the new database features and components of Visual Basic 6; Use Active Data Objects to connect to a data source; use design features such as database normalization, replication, and security; create and update databases with Visual Basic 6 using SQL; program an ODBC interface to remote databases; implement data-bound controls; access network-based databases using Remote Data Objects; generate repots using the Data Report Designer; and create programs with the D ...

9 A network environment for computer-supported cooperative work
J. Whitescarver, P. Mukherji, M. Turoff, R. J. DeBlock, R. M. Czech, B. K. Paul
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the**

ACM workshop on Frontiers in computer communications technology, Volume 17 Issue 5

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

A second generation computer supported cooperative work system called Electronic Information Exchange System (EIES2) is described in this paper. The EIES2 communications environment allows users to network across geographical constraints using asynchronous or synchronous communications. The architecture of the network environment is decentralized, and is implemented using modern standards, and an easy-to-use user interface. At the heart of EIES2 is a high-level, object oriented p ...

10 Web Development with Visual Basic 5 (with CD-ROM)

Que Corporation, Robert Amenn
August 1997 Book, Que Corp.

Additional Information: full citation, abstract

From the Publisher:

Web Development with Visual Basic 5 is a comprehensive tutorial and reference guide to the newest web development technologies. Developers will learn what these technologies are and when to use them Tutorial - Developers can use this book to teach themselves the latest web development technologies Reference - Developers will discover it is an essential desk reference for clarification of difficult topics, troubleshooting, or debugging existing applications Develop ...

11 Working with Ado and OLE DB

Michael Lefavers
April 1997 Book, Macmillan Publishing Co., Inc.

Additional Information: full citation, abstract

From the Publisher:

Master database programming with OLE and ActiveX
-- Learn how to work with data across disconnected environments such as the Internet
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-- Learn the value of "componentizing" your applications using OLE and OLE DB technology
-- Understand the benefits of OLE DB over the current ODBC standard
-- Explore the ...

12 Teach Yourself Database Programming with Visual Basic in 21 Days, with CD-ROM

Michael C. Amundsen, Curtis Smith
March 1997 Book, Sams

Additional Information: full citation, abstract

From the Book:

Welcome to Database Programming in Visual Basic 5

Welcome to *Teach Yourself Database Programmin with Visual Basic 5 in 21 Days, Second Edition*. You cover a lot of groun in the next 21 lessons--from developing fully functional input screens with fewer than 10 lines of Visual Basic code and writing Visual Basic code libraries, to handling complex user security and auditing in multiuser applications, to creating online help files for your Visual Basic programs, ...

13 Bussiness, implementation and managment issues of "many to many" collaborative enviroments

April 2001 **Information-Knowledge-Systems Management**, Volume 2 Issue 3

Additional Information: full citation, index terms, review

14 A Complete Visual Basic Database Training Course: The Ultimate Cyber Classroom
Dave Perkovich
December 1998 Book, Prentice Hall PTR

Additional Information: full citation, abstract

From the Publisher:

The complete, multimedia introduction to developing client-side database applications with Visual Basic.

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- It contains over 2 hours of audio, hundreds of lines of fully-tested, live Visual Basic code, interactive exercises, animations, full-text searching, hyperlinking, a ...

15 Stuck in the Middle: Challenges and Trends in Optimizing Middleware
Daniel M. Yellin
August 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 8

Full text available: pdf(104.87 KB) Additional Information: full citation, index terms

16 Source-level global optimizations for fine-grain distributed shared memory systems
R. Veldema, R. F. H. Hofman, R. A. F. Bhoedjang, C. J. H. Jacobs, H. E. Bal
June 2001 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN symposium on Principles and practices of parallel programming**, Volume 36 Issue 7

Full text available: pdf(112.60 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes and evaluates the use of aggressive static analysis in Jackal, a fine-grain Distributed Shared Memory (DSM) system for Java. Jackal uses an optimizing, source-level compiler rather than the binary rewriting techniques employed by most other fine-grain DSM systems. Source-level analysis makes existing access-check optimizations (e.g., access-check batching) more effective and enables two novel fine-grain DSM optimizations: object-graph aggregatio ...

17 Dynamic Scheduling and Fault-Tolerance: Specification and Verification
Tomasz Janowski, Mathai Joseph
January 2001 **Real-Time Systems**, Volume 20 Issue 1

Full text available: Publisher Site Additional Information: full citation, abstract, index terms

Consider a distributed real-time program which is executed on a system with a limited set of hardware resources. Assume the program is required to satisfy some timing constraints, despite the occurrence of anticipated hardware failures. For efficient use of resources, scheduling decisions must be taken at run-time, considering deadlines, the load and hardware failures. The paper demonstrates how to reason about such dynamically scheduled programs in the framework of a timed pr ...

Keywords: provable fault-tolerance, provable schedulability, real-time distributed systems, timed modal logic, timed process algebra

18 Bulk file I/O extensions to Java
Dan Bonachea
June 2000 **Proceedings of the ACM 2000 conference on Java Grande**
Full text available: pdf(1.11 MB) Additional Information: full citation, references, index terms

Keywords: I/O, Java, asynchronous, bulk

19 Some problems in distributing real-time Ada programs across machines
Richard A. Volz, Trevor N. Mudge, Arch W. Naylor, John H. Mayer
May 1985 **ACM SIGAda Ada Letters , Proceedings of the 1985 annual ACM SIGAda international conference on Ada**, Volume V Issue 2
Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

20 Distributed transactions for reliable systems
Alfred Z. Spector, Dean Daniels, Daniel Duchamp, Jeffrey L. Eppinger, Randy Pausch
December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles**, Volume 19 Issue 5
Full text available: pdf(1.44 MB) Additional Information: full citation, references, index terms

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